

HBKS01/W

Bluetooth Kinetic Switch | One-gang | Wireless Control

HYTRONIK®
SENSORS & LIGHTING CONTROL



Benefits

Wireless: Enabling battery-free control with kinetic energy

Flexible: Supporting short/long press for dimming and scene recall

Simple: Allowing wireless button assignment via app

Applications

All Retrofit installations

Offices, Classrooms

Commerce, Stores

Check out the complete system solution on the website:

<https://www.hytronik.com>



Product Description

HBKS01/W is a one-gang self-powered Bluetooth kinetic switch designed for wireless lighting control. Energy is generated through button actuation, eliminating the need for batteries or wiring and enabling flexible installation. The switch supports short press and long press operations, which can be assigned to functions such as dimming, scene recall, and manual mode exit. All button behaviors can be configured wirelessly via the Koolmesh app, making it suitable for smart lighting applications in both new and retrofit projects.

Functions and Features



Koolmesh (See
bluetooth control below)



LED Indicator



Self Powered

HBKS01/W

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Specifications

Electrical Data	
Bluetooth frequency	2.4 GHz - 2.483 GHz
Bluetooth transmit power	-5 dBm
Bluetooth range	10-30 m
Bluetooth system	Koolmesh

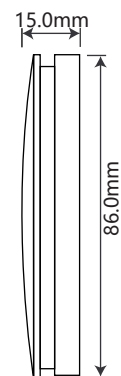
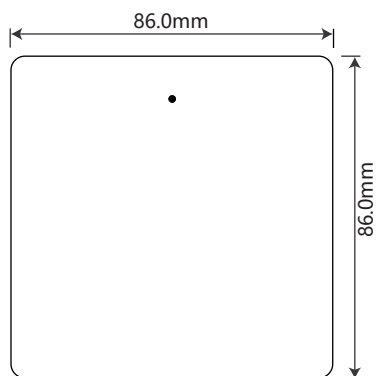
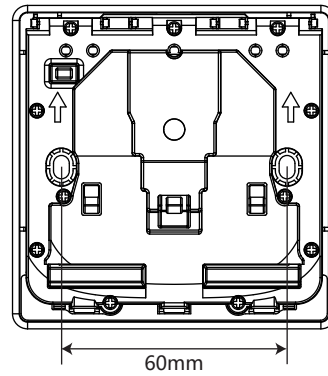
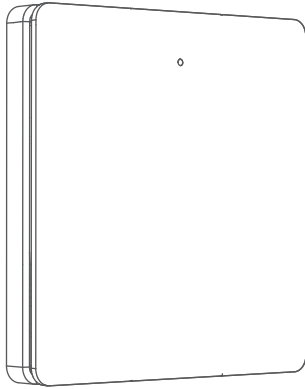
Technical	
Ambient temperature	-10°C - +40°C
Storage temperature	-10°C - +60°C
Humidity	10% - 70%
Housing material	PC
Pressing intensity	≈700g (reference only, individual variations exist)
Lifetime	100,000 actuation (switching cycles)
IP rate	IP20

Standards	
EMC	EN 55032
LVD	EN 62368, EN 55032
RED	EN 30328, EN 301489-1, EN301489-17
Certification	CE , EMC, RED, LVD

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Technical Drawing



HBKS01/W

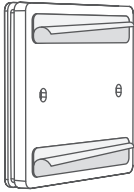
Bluetooth Kinetic Switch | One-gang | Wireless Control

Installation Process

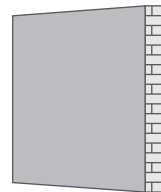
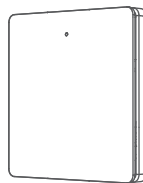
Method 1: Adhesive Mounting

*If the wall surface is clean and smooth, directly peel off the double-sided adhesive tape and stick the switch to the wall.

1



2

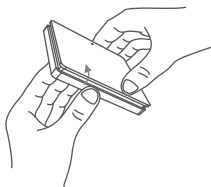


1. Tear off the 3M adhesive tape provided with the switch and attach it to the back of the switch, then remove the protective film of the 3M adhesive.
2. Press the switch firmly onto the wall to ensure stable adhesion.

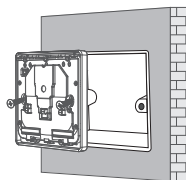
Method 2: Switch installation directly onto the switch box

*If prefer to install it on the original switch box, use screws for installation.

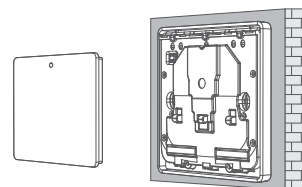
1



2



3



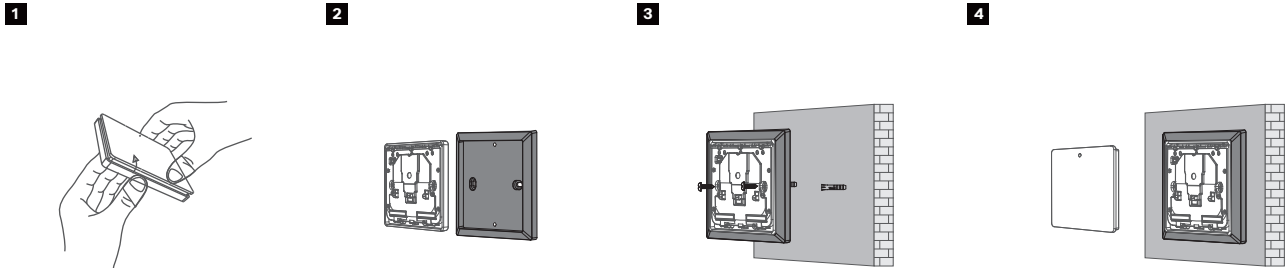
1. Use both hands to lift the cover upwards.
2. Secure the switch to the switch box with Ø4.0×30mm screws.
3. Snap the cover into the switch to complete the installation.

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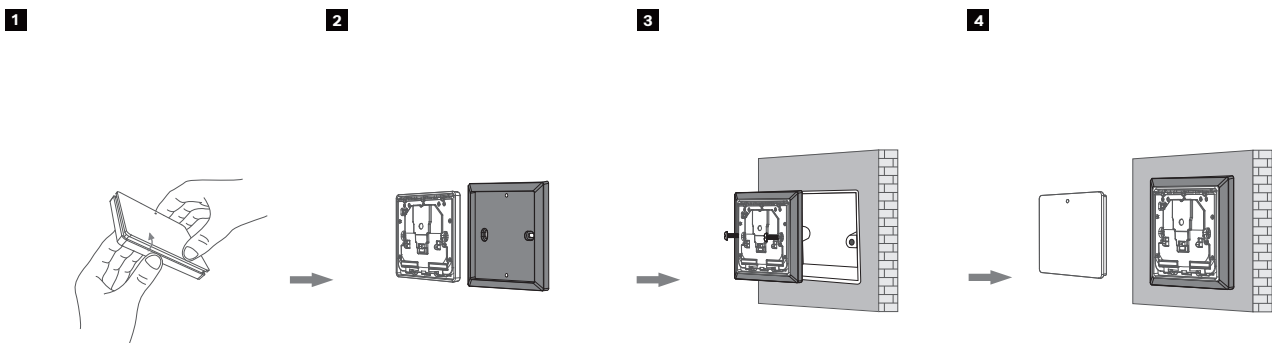
Method 3: Installation Onto the Wall Using the HAKS01.

*Without the switch bezel, the switch cannot be mounted directly onto the wall



1. Use both hands to lift the cover upwards.
2. Align the switch screw holes with HAKS01 mounting holes.
3. Use Ø4.0×20mm screws to mount the aligned switch and HBKS01 onto the wall.
4. Snap the cover into the base to complete the installation.

Method 4: Installation Onto the Switch Box Using the HAKS01.



1. Use both hands to lift the cover upwards.
2. Align the switch screw holes with HAKS01 mounting holes.
3. Use Ø4.0×30mm screws to mount the aligned switch and HBKS01 onto the Switch Box.
4. Snap the cover into the base to complete the installation.

Commissioning Instructions and Precautions

A. Installation Preparations

1. This product should be installed by a qualified electrician.
2. Please control the screw tightening torque during assembly (recommended $\leq 0.1 \text{ N}\cdot\text{m}$) to avoid panel deformation caused by uneven stress, which may affect button feel or function. Proper torque ensures both structural stability and appearance quality.

B. Bluetooth Precautions

1. Bluetooth transmission performance may be affected by various factors, including but not limited to the force applied to buttons during operation (which may impact power supply stability) and actual environmental conditions such as electromagnetic interference and physical obstructions.

Warning: For additional important documents, including installation precautions, product guidelines, and guarantee conditions, please refer to <https://hytronik.com/service/downloads>

Dimming Interface Operation Notes

Detailed Push switch configurations can be set on Koolmesh app.

Switch Function	Action	Descriptions
Normal push (Retractive switch)	Single press ($> 0.1s$) Double press Press and hold ($\geq 1s$)	• ON/OFF • OFF only • Recall this scene • Sensor take over • Not in use

HBKS01/W

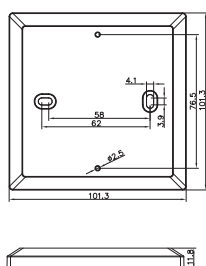
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Options

Accessories

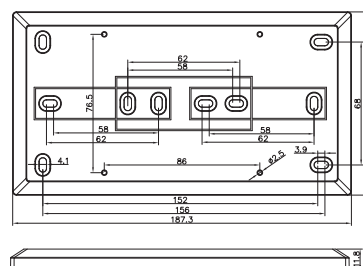
The Switch Bezel is an accessory for Hytronik kinetic switches in Basalt Grey. It enhances accessibility, especially for those with impaired vision or limited hand mobility. Compliant with the UK's Part M regulations, it ensures safe and easy usage for everyone.

HAKS01/W, HAKS01/B (size:mm)



For the installation of a single switch

HAKS02/W, HAKS02/B (size:mm)



For the installation of double switches

HBKS01/W

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Koolmesh - Operating guide

Bluetooth 5.0 SIG Mesh



Smartphone(ios)



Smartphone (Android)



iPad



Web

For additional information, including project and network, device, and scenes, please refer to: <http://faq.koolmesh.com/faq/en/index.html>

Shared Koolmesh App Features



Quick setup mode & advanced setup mode



Web platform for project deployment & data analysis



Koolmesh Pro iPad for on-site configuration



Floorplan feature to simplify project planning



One-key device replacement



Device social relations check



Staircase function for quick setup



Remote control via Hytronik gateway & touch screen HPAD-TSJASE1



Heat map



Grouping luminaires via mesh network



Scenes



Schedule



Astro timer (sunrise and sunset)



Power-on status (memory against power loss)



Offline commissioning



Bulk commissioning (copy and paste settings)



Different permission levels via authority management



Network sharing via QR code or keycode



Interoperability with Hytronik Bluetooth product portfolio



Internet-of-Things (IoT) featured



Device firmware update over-the-air (OTA)



Alert for excess lux / temperature / humidity via multi-meter HBLM01



Seamless integration with BMS via Hytronik BMS gateway



Test mesh network connection quality



Compatible with Shelly emergency metering



Continuous development in progress...

Smart Phone to Device Range

1. The smart device with the installed App typically has a range of 10m, which may vary between devices.
2. During the commissioning process, the installer must be within range of the devices while searching for them to add to the network.
3. Once the devices are added to the network via the App, they will begin communicating within the wireless mesh.
4. After the network is complete, all devices can be accessed from the smart device within a 20m range of a single point.



Bluetooth Network Components



HBGW02

Bluetooth Mesh Gateway | Dual-band Wi-Fi
| wall/flat surface mounting

www.hytronik.com/product/HBGW02



HBGW02/D

Bluetooth Mesh Gateway | Dual-band Wi-Fi
| wall/flat surface mounting

www.hytronik.com/product/HBGW02/D



HBGW03/R

BACnet Gateway | DIN rail/wall/flat surface mounting
| Remote access/monitoring

www.hytronik.com/product/HBGW03



HBLM01

Multi-meter | Bluetooth & NFC | Lux Measurements

www.hytronik.com/product/HBLM01



HPAD-TSJASE1

Bluetooth Touch Tablet | Gateway Integrated | Switch Boxes

www.hytronik.com/product/HPAD-TSJASE1



HBKS01/W

Bluetooth Kinetic Switch | One-gang | White Color

www.hytronik.com/product/HBKS01-W



HBKS01D/W

Bluetooth Kinetic Switch | Single Rocker | White Color

www.hytronik.com/product/HBKS01D-W



HBKS02/W

Bluetooth Kinetic Switch | Two-gang | White Color

www.hytronik.com/product/HBKS02-W



HBKS02D/W

Bluetooth Kinetic Switch | Double Rocker | White Color

www.hytronik.com/product/HBKS02D-W



HBKS03/W

Bluetooth Kinetic Switch | Three-gang | White Color

www.hytronik.com/product/HBKS03-W



Switch (EnOcean) - HBES01/B

Bluetooth Kinetic Switch | Single Rocker | White Color

www.hytronik.com/product/HBES01/B



Switch (EnOcean) - HBES01/W

Bluetooth Kinetic Switch | Three-gang | White Color

www.hytronik.com/product/HBES01/W

Functions and Features

5-year Warranty



All Hytronik products are supplied with a 5-year warranty against defect in design or manufacture. The warranty applies to all electronic control gears supplied by Hytronik and is applicable to the party to which the sale was made. The warranty is not transferable to a 3rd party and compatibility with external components are the responsibility of the finished goods manufacturer. With today's multi-national sourcing strategies, we offer an unrivalled universal warranty with support available in regions where Hytronik has its own office or authorized representation, regardless of where the Hytronik product was purchased. Furthermore, we operate a 24-hour response policy to any claim. The full warranty policy is available upon request or from our website.

LED Indicator



The product includes an LED indicator that provides visual feedback on operating status, configuration activity or fault conditions. The indicator allows users or installers to verify device behaviour quickly on site, supporting easier setup, troubleshooting and system monitoring.

Self Powered



The product is self powered and operates without any external power supply, batteries or solar cells. Its kinetic energy mechanism generates the required power for each operation, enabling maintenance-free use and allowing the switch to be installed freely without wiring. This design supports flexible deployment, reduces environmental impact and simplifies system installation.

Check out for further explanation of features

<https://hytronik.com/solutions/lighting-control-features>